

Conference Abstract

Making Known and Available: The importance of digitization of a historical malacological collection in the Science Museum of the University of Coimbra

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Abstract

The Science Museum of the University of Coimbra (MCUC) manages the oldest zoological collections in Portugal. The molluscs are among the most relevant invertebrates within this collection, with over one hundred thousand specimens. A significant part of the Portuguese malacological collection in MCUC comes from the Madeira Archipelago, a group of oceanic islands with a high diversity of terrestrial molluscs and a hotspot of endemic taxa.

A recent review of land snails from Madeira hosted at the MCUC revealed that there were around 130 lots and 2,000 specimens offered by naturalists since the 19th Century and none of them had been previously digitized. A significant number of these specimens was offered by António da Costa de Paiva (Barão de Castelo de Paiva) who described ten land snail species from the Madeira Archipelago in 1866 and published an extensive monograph on non-marine molluscs in 1867.

The main goal of our work was to carry out the inventory of the mollusc collections from the Madeira Archipelago in the database of MCUC, and to discuss the importance of

specimens' digitization for making the collections known and available to researchers and the general public.

We inserted data for 1,916 specimens of the Madeira Archipelago collection in the MCUC database '*In Natura* - Natural Heritage Management' with information on their taxonomy, old inventory numbers (if available), correspondent lot, collector and the study areas, complemented with information about habitat, among others. In addition, we also included photographs of the lots and of some of the most remarkable individuals in the database. The specimens were then reconditioned and identified in the general mollusc collection, although the identification and designation of the type material are still lacking.

Digitization is crucial in the field of biological collections in order to transfer specimen data onto worldwide accessible repositories, potentially benefiting the work of researchers and other stakeholders in the ecological and conservation communities. For instance, even when researchers are intensively searching for a type material in a certain collection, if the data are neither known nor available, they cannot trace it and compare it with their material.

Thus, this work is fundamental for the accessibility of the malacological collections in the MCUC for researchers and also the society-at-large that has the possibility of consulting them through the digital museum (<http://museudaciencia.inwebonline.net>), as well as for the dissemination of the important historical and scientific heritage of the University of Coimbra and Portugal, both nationally and internationally.

Keywords

Digitization, Malacology, Natural History Museums, Zoological Collections

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